

# CHEM F325

## Organic Chemistry II

Spring 2019

CRN(s): 33371, 33372, 33373, 33374

Credits: 4 credits

Lecture: REIC 202, MWF 1:00-2:00 PM (in person)

Lab: REIC 241, Various Times

Prerequisite: Chem F321 with grade of C or better

### Lecture Instructor

Jennifer Guerard, Ph.D.

Office: REIC 180

Office Hrs: Mon 1030 am - 1230 pm

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### Lab Instructor

Thomas Green, Ph.D.

Office: REIC 174

Office Hrs: Tues 1-3

Phone: (907) 474-1559

Email: [tkgreen@alaska.edu](mailto:tkgreen@alaska.edu)

Lab syllabus TBD

**Course Goals** The course goals are to know reaction chemistry of major functional groups of organic molecules, including writing mechanisms for organic reactions, how to write organic reactions in a logical sequence to demonstrate how a molecule might be synthesized in the laboratory, and the use of spectroscopic techniques to determine structure of organic molecules.

### Catalog Course Description



## Important Dates:

Jan 14 First day of class  
Jan 25 Last day for late registration, drops with no appearance on academic record  
Feb 8 EXAM I  
Mar 8 EXAM II  
Mar 29 Last day for withdrawal with W  
Apr 5 EXAM III  
Apr 24 EXAM IV  
Apr 29 Last day of class  
May 1 FINAL 1-3pm  
May 9 Grades Posted

**Student Learning Outcomes** A more detailed list of more specific learning outcomes for each chapter is posted on Blackboard and sent via

**Quizzes.** 9 quizzes (lowest score dropped) will be administered by paper or clicker, each worth 10 points for a total of 80 points (see syllabus schedule; 5 questions each, ~15 min). Students will be notified ahead of time of the format for upcoming quizzes.

**Smartwork5 (FREE).** Instructions are on Blackboard under Course Materials for Smartwork5 registration. Smartwork is available as extra practice problem opportunities to aid in studying.

**Class Participation.** Several in-class activities involve individual responses using Turning Technologies Clickers. **It is thus important to attend and bring your clicker to class every day.** It is the student's responsibility to bring the clicker/responseware-installed-device to each class, replace if lost, verify it is registered correctly on the instructor's database, and keep it supplied with fresh batteries. **It is ultimately the student's responsibility** to address problems with their clicker and/or check with the instructor concerning their clicks. **Clicker IDs must be registered through Blackboard by SUNDAY, Jan 22<sup>nd</sup>, 11:59 PM.** Clicker registration directions are posted on Blackboard.

**Instructor-Initiated Withdrawals.** Until **Friday, March 29<sup>th</sup>**, the instructor has the right to withdraw a student who has not participated substantially in the course. Any (or combination) of the following constitute non-participation: 1) Missed exam or 2 quizzes without excused absence, 2) At least 2 incomplete homework assignments, or 3) Less than 50% attendance as registered by clickers.

**Mobile Devices and Laptops.** Mobile devices must be turned to silent or "vibrate" mode during class. Use of electronic devices that facilitate learning are permitted.

**Absences.** Make-up exams/quizzes are allowed in the event of a legitimate cause **a** proper notification to the instructor. Known absences (e.g., intercollegiate sports, travel for military or university purposes) are required to provide notification by email **b** the absence; unexpected/emergency absences (e.g., illness, family, or personal emergency) need to provide notification at the earliest possible opportunity. Students may be asked to provide documentation for the absence. Make-ups should be scheduled as soon as possible from the originally scheduled date.

# CHEM F325 Spring 2019 Tentative Schedule

	Date	Topic	Assigned Readings	Klein	Assignments & Quizzes
Week 1	M 1/14	Mass Spec	16: 16.16-16.19, IC G		
	W 1/16	Nuc Add I	17a: 17.1-17.4	Ch 6	
	F 1/18		17b: 17.5-17.6		
Week 2	W 1/23	Nuc Add I	17c: 17.7-17.13		Quiz 1, HW 16 due
	F 1/25		17c: 17.7-17.13		HW 17a due, xc1 due
Week 3	M 1/28	Nuc Add II	18a: 18.1 – 18.3	Ch 6, 8	HW 17b due
	W 1/30		18b: 18.4 – 18.9		HW 17c due
	F 2/1		18c: 18.10-18.11		Quiz 2, HW 18a due
Week 4	M 2/4		18c: 18.10-18.11		HW 18b due
	W 2/6		EXAM I Review		HW 18c due
	<b>F 2/8</b>		<b>EXAM I: Ch 16-18, IC G</b>		
Week 5	M 2/11	Org Synthesis II	19a: 19.1-19.2		
	W 2/13		19b: 19.3-19.5		19b9.6
	F 2/15		19c: 19.6-19.7		Quiz 3, HW 19a due, HW 460